

CLEAN CLAIMS

In the Claims:

Claims 1-22 (Cancelled).

Claim 23 (Previously presented). A method of identifying a maize progeny plant having a restriction fragment introgressed from a *Tripsacum*/teosinte hybrid, said method comprising the following steps:

- (a) isolating the total genomic DNA from the plant;
- (b) digesting said genomic DNA with one to five of the restriction enzymes selected from the group consisting of *EcoRI*, *EcoRV*, *HindIII*, *BamHI* and *MspI*;
- (c) probing said digested genomic DNA with one or more probes, to identify one or more restriction fragments, selected from the group consisting of

BNL5.62, *EcoRI*, 10.3 kb; np197, *HindIII*, 3.9 kb; UMC157, *EcoRI*, 6.5 kb and 3.3 kb; UMC157, *HindIII*, 5.5 kb; UMC157, *BamHI*, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, *BamHI*, 7.0 kb; CSU3, *BamHI*, 10.0 kb and 7.6 kb; UMC67, *EcoRI*, 19.2 kb; UMC67, *BamHI* 13.4 kb, 11.0 kb and 1.6 kb; CSU92, *BamHI*, 13.3 kb and 7.5 kb; asg62, *BamHI*, 12.7 kb, 9.7 kb and 6.6 kb; UMC58, *HindIII*, 3.3 kb; CSU164, *EcoRI*, 9.0 kb and 7.0 kb; UMC128, *HindIII*, 6.0 kb; UMC107, *EcoRI*, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, *EcoRI*, 4.9 kb; UMC140, *HindIII*, 6.5 kb; adh1, *HindIII*, 9.4 kb; adh1, *BamHI*, 9.4 kb; UMC161, *HindIII*, 3.3 kb; BNL8.29, *HindIII*, 9.3 kb and 8.3 kb; UMC53, *EcoRI*, 9.4 kb; UMC53, *EcoRV*, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, *EcoRI*, 3.8 kb; UMC6, *HindIII* 9.4 kb; UMC6, *BamHI*, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, *HindIII*, 3.4 and 2.8 kb *agrr167*, *BamHI*, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, *EcoRI*, 7.5 kb and 5.4 kb; UMC34, *HindIII*, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, *BamHI*, 9.4 kb; UMC135, *HindIII*, 11.6 kb and 10.8 kb; UMC131, *EcoRI*, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, *EcoRI*, 3.9 kb; UMC55, *HindIII*, 4.3 kb; UMC5, *EcoRI*, 5.4 kb; UMC5, *HindIII*, 6.5 kb; UMC49, *BamHI*, 8.2 kb; UMC36, *BamHI*,

4.2 kb; UMC32, *EcoRI*, 5.3 kb; UMC32, *HindIII* 6.7 kb, 6.0 kb, and 2.8 kb; *asg24*, *HindIII*, 7.2 kb and 6.4 kb; UMC121, *EcoRI*, 3.7 kb and 3.2 kb; BNL8.35, *HindIII*, 9.9 kb and 8.7 kb; *UMC50*, *BamHI*, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; *UMC42*, *HindIII*, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; *npi247*, *EcoRI*, 8.0 kb; *npi247*, *HindIII* 3.0 kb; UMC10, *HindIII*, 3.0 kb; UMC10, *EcoRI*, 6.5 kb and 5.5 kb; UMC102, *EcoRI*, 2.7 kb; BNL6.06, *EcoRI*, 6.8 kb; CSU240, *EcoRI*, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, *HindIII*, 10.3 kb, 5.8 kb and 3.5 kb; *npi296*, *EcoRI*, 7.9 kb; UMC3, *EcoRI* 2.5 kb and 2.0 kb; *npi212*, *HindIII*, 4.3 kb; *npi212*, *BamHI*, 5.4 kb; UMC39, *EcoRI*, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; *phi10080*, *BamHI*, 9.7 kb; UMC63, *HindIII*, 9.5 kb and 4.3 kb; CSU303, *EcoRI*, 10.0 kb; UMC96, *HindIII*, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, *BamHI*, 7.5 kb; UMC2, *EcoRI*, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; *CSU25*, *HindIII*, 5.2 kb, 4.5 and 4.2 kb; *agrr115*, *EcoRI*, 8.0 kb and 5.4 kb; *agrr115*, *BamHI*, 5.4 kb and 3.5 kb; *phi20725*, *EcoRI*, 10.3 kb, 9.7 kb and 7.2 kb; *phi20725*, *HindIII*, 1.5 kb; UMC31, *EcoRI*, 5.8 kb and 2.0 kb; *UMC31*, *BamHI* 6.5 kb; UMC55, *EcoRI*, 3.9 kb; UMC55, *HindIII*, 4.3 kb; CSU235, *HindIII*, 6.8 kb and 3.0 kb; CSU585, *HindIII*, 8.3 kb and 6.1 kb; BNL5.46, *HindIII*, 13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; *agrr321*, *BamHI*, 5.5 kb; *agrr89*, *HindIII*, 7.1 kb; *npi386*, *HindIII*, 12.6 kb, 9.3 kb and 8.2 kb; *UMC42*, *HindIII*, 19.2 kb, 10.3 kb 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; *tda62*, *BamHI*, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; BNL5.71, *EcoRV*, 11.3 kb, 6.8 kb, and 5.7 kb; UMC156, *HindIII*, 3.0 kb; UMC66, *EcoRI*, 10.5 kb; UMC66, *BamHI*, 3.7 kb and 2.4 kb; UMC19, *BamHI*, 12.3 kb; UMC104, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, *BamHI*, 9.4 kb; UMC133, *HindIII*, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; UMC52, *BamHI*, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; BNL15.07, *HindIII*, 2.9 kb and 2.7 kb; *npi409*, *EcoRI*, 9.4 kb; *npi409*, *HindIII*, 10.4 kb, 9.0 kb and 3.9 kb; UMC147, *HindIII*, 16.3 kb, 3.8 kb and 2.4 kb; *asg73*, *EcoRI*, 3.8 kb; UMC90, *HindIII*, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; UMC90, *BamHI*, 9.0 kb; *UMC72*,

EcoRI, 8.5 kb; UMC27, *HindIII*, 8.3 kb and 4.5 kb; UMC27, *BamHI*, 6.5 kb; UMC43, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; tda37, *BamHI*, 9.0 kb, 8.0 kb and 6.4 kb; UMC43, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; UMC40, *BamHI*, 7.2 kb, 4.7 kb and 4.3 kb; BNL7.71, *HindIII*, 10.6 kb; BNL5.71, *BamHI*, 11.3 kb, 6.8 kb and 5.7 kb; tda62, *BamHI*, 6.5 kb and 5.5 kb; UMC68, *HindIII*, 6.0 kb; UMC104, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, *BamHI*, 9.4 kb; phi10017, *BamHI*, 15.1 kb and 9.5 kb; tda50, *BamHI*, 8.5 kb; np1373, *HindIII*, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb; tda204, *BamHI*, 4.0 kb; np1393, *EcoRI*, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; UMC65, *HindIII*, 2.9 kb; UMC46, *EcoRI*, 6.5 kb and 5.6 kb; asg7, *HindIII*, 6.3 kb; UMC28, *HindIII*, 15.8 kb and 11.9 kb; UMC28, *BamHI*, 9.9 kb, 7.6 kb and 6.6 kb; UMC134, *HindIII*, 7.5 kb and 4.7 kb; asg8, *HindIII*, 10.8 kb, 8.7 kb and 8.4 kb; phi20581, *HindIII*, 4.2 kb; O2, *EcoRI*, 9.4 kb; asg34, *HindIII*, 4.5 kb; BNL15.40, *HindIII*, 5.8 kb; UMC116, *EcoRI*, 9.5 kb; UMC110, *BamHI*, 10.6 kb, 4.9 kb and 3.9 kb; BNL8.32, *HindIII*, 8.9 kb, 7.4 kb and 7.1 kb; BNL14.07, *EcoRI*, 6.4 kb; UMC80, *HindIII*, 10.7 kb, 8.2 kb and 2.4 kb; BNL16.06, *EcoRI*, 6.8 kb and 1.9 kb; BNL16.06, *HindIII*, 5.7 kb, 3.0 kb and 1.6 kb; phi20020, *HindIII*, 7.8 kb, 6.6 kb and 5.1 kb; np1114, *HindIII*, 10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, *HindIII*, 3.4 kb; UMC103, *HindIII*, 6.9 kb; UMC124, *HindIII*, 8.0 and 7.0; UMC124, *BamHI*, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, *HindIII*, 3.2 kb, 2.3 kb and 1.4 kb; UMC89, *EcoRI*, 7.3 kb; UMC89, *HindIII*, 7.3 kb; UMC89, *BamHI*, 9.5 kb, 6.0 kb, 5.2 kb and 4.5 kb; UMC89, *MspI*, 6.7 kb and 5.8 kb; BNL12.30, *EcoRI*, 3.5 kb; UMC48, *HindIII*, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, *EcoRI*, 3.8 kb and 3.0 kb; UMC53, *EcoRV*, 8.4 kb; np1268, *BamHI*, 6.4 kb; UMC7, *BamHI*, 4.2 kb; UMC3, *EcoRI*, 3.5 kb and 2.0 kb; phi10005, *EcoRI*, 15.0 kb and 1.6 kb; UMC113, *EcoRI*, 5.9 kb and 5.4 kb; UMC113, *BamHI*, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, *HindIII*, 11.4 kb and 6.4 kb; wx (waxy), *HindIII*, 21.0 kb; UMC105, *EcoRI*, 3.9 kb; CSU147, *HindIII* 5.9 kb; BNL5.10, *HindIII*, 6.1 kb

and 4.4 kb; UMC114, *Bam*HI, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95, *Eco*RI, 5.6 kb; UMC95, *Hind*III, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95, *Bam*HI, 15.0 kb and 9.0 kb; asg44, *Eco*RI, 5.3 kb; CSU61, *Eco*RI, 8.1 kb and 4.8 kb; BNL7.57, *Bam*HI, 11.6 kb and 5.9 kb; CSU54, *Eco*RI, 14.7 kb and 12.6 kb; phi20075, *Eco*RI, 7.1 kb; npi285, *Eco*RI, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, *Eco*RI, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5 kb; UMC130, *Eco*RI, 13.5 kb and 7.0 kb; UMC130, *Hind*III, 4.8 kb and 3.2 kb; UMC130, *Bam*HI, 3.2 kb; UMC64, *Hind*III, 3.3 kb; UMC152, *Hind*III, 12.4 kb, 7.1 kb and 5.6 kb; phi06005, *Eco*RI, 12.8 kb; UMC163, *Hind*III, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44, *Hind*III, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, *Hind*III, 10.8 kb; npi306, *Hind*III, 7.0 kb; pmt1, *Hind*III, 2.3 kb; pmt2, *Hind*III, 2.8 kb and 2.1 kb; *pmt5*, *Hind*III, 12.3 kb, 8.1 kb, 3.6 kb, 3.2 kb and 2.5 kb; tda48, *Hind*III, 8.2 kb; tda53, *Hind*III, 3.8 kb and 2.2 kb; tda168, *Eco*RI, 3.6 kb; tda16, *Hind*III, 4.3 kb; and tda17, *Hind*III, 7.0 kb; tda250, *Bam*HI, 4.0 kb, recited as marker-enzyme fragment size;

(d) determining the presence of one or more of the restriction fragments.

Claims 24-43 (Cancelled).

Claim 44 (Currently amended). A maize plant comprising one or more restriction fragments selected from the group consisting of

BNL5.62, *Eco*RI, 10.3 kb; npi97, *Hind*III, 3.9 kb; UMC157, *Eco*RI, 6.5 kb and 3.3 kb; UMC157, *Hind*III, 5.5 kb; UMC157, *Bam*HI, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, *Bam*HI, 7.0 kb; CSU3, *Bam*HI, 10.0 kb and 7.6 kb; UMC67, *Eco*RI, 19.2 kb; UMC67, *Bam*HI 13.4 kb, 11.0 kb and 1.6 kb; CSU92, *Bam*HI, 13.3 kb and 7.5 kb; asg62, *Bam*HI, 12.7 kb, 9.7 kb and 6.6 kb; UMC58,

*Hind*III, 3.3 kb; CSU164, *Eco*RI, 9.0 kb and 7.0 kb; UMC128, *Hind*III, 6.0 kb; UMC107, *Eco*RI, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, *Eco*RI, 4.9 kb; UMC140, *Hind*III, 6.5 kb; *adh1*, *Hind*III, 9.4 kb; *adh1*, *Bam*HI, 9.4 kb; UMC161, *Hind*III, 3.3 kb; BNL8.29, *Hind*III, 9.3 kb and 8.3 kb; UMC53, *Eco*RI, 9.4 kb; UMC53, *Eco*RV, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, *Eco*RI, 3.8 kb; UMC6, *Hind*III 9.4 kb; UMC6, *Bam*HI, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, *Hind*III, 3.4 and 2.8 kb *agrr167*, *Bam*HI, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, *Eco*RI, 7.5 kb and 5.4 kb; UMC34, *Hind*III, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, *Bam*HI, 9.4 kb; UMC135, *Hind*III, 11.6 kb and 10.8 kb; UMC131, *Eco*RI, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, *Eco*RI, 3.9 kb; UMC55, *Hind*III, 4.3 kb; UMC5, *Eco*RI, 5.4 kb; UMC5, *Hind*III, 6.5 kb; UMC49, *Bam*HI, 8.2 kb; UMC36, *Bam*HI, 4.2 kb; UMC32, *Eco*RI, 5.3 kb; UMC32, *Hind*III 6.7 kb, 6.0 kb, and 2.8 kb; *asg24*, *Hind*III, 7.2 kb and 6.4 kb; UMC121, *Eco*RI, 3.7 kb and 3.2 kb; BNL8.35, *Hind*III, 9.9 kb and 8.7 kb; UMC50, *Bam*HI, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; UMC42, *Hind*III, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; *npi247*, *Eco*RI, 8.0 kb; *npi247*, *Hind*III 3.0 kb; UMC10, *Hind*III, 3.0 kb; UMC10, *Eco*RI, 6.5 kb and 5.5 kb; UMC102, *Eco*RI, 2.7 kb; BNL6.06, *Eco*RI, 6.8 kb; CSU240, *Eco*RI, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, *Hind*III, 10.3 kb, 5.8 kb and 3.5 kb; *npi296*, *Eco*RI, 7.9 kb; UMC3, *Eco*RI 2.5 kb and 2.0 kb; *npi212*, *Hind*III, 4.3 kb; *npi212*, *Bam*HI, 5.4 kb; UMC39, *Eco*RI, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; *phi10080*, *Bam*HI, 9.7 kb; UMC63, *Hind*III, 9.5 kb and 4.3 kb; CSU303, *Eco*RI, 10.0 kb; UMC96, *Hind*III, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, *Bam*HI, 7.5 kb; UMC2, *Eco*RI, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; CSU25, *Hind*III, 5.2 kb, 4.5 and 4.2 kb; *agrr115*, *Eco*RI. 8.0 kb and 5.4 kb; *agrr115*, *Bam*HI, 5.4 kb and 3.5 kb; *phi20725*, *Eco*RI, 10.3 kb, 9.7 kb and 7.2 kb; *phi20725*, *Hind*III, 1.5 kb; UMC31, *Eco*RI, 5.8 kb and 2.0 kb; UMC31, *Bam*HI 6.5 kb; UMC55, *Eco*RI, 3.9 kb; UMC55, *Hind*III, 4.3 kb; CSU235, *Hind*III, 6.8 kb and 3.0 kb; CSU585, *Hind*III, 8.3 kb and 6.1 kb; BNL5.46, *Hind*III,

13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; *agrr321*, *Bam*HI, 5.5 kb; *agrr89*, *Hind*III, 7.1 kb; *npi386*, *Hind*III, 12.6 kb, 9.3 kb and 8.2 kb; *UMC42*, *Hind*III, 19.2 kb, 10.3 kb 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; *tda62*, *Bam*HI, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; *BNL5.71*, *Eco*RV, 11.3 kb, 6.8 kb, and 5.7 kb; *UMC156*, *Hind*III, 3.0 kb; *UMC66*, *Eco*RI, 10.5 kb; *UMC66*, *Bam*HI, 3.7 kb and 2.4 kb; *UMC19*, *Bam*HI, 12.3 kb; *UMC104*, *Hind*III, 12.4 kb, 11.6 kb and 7.5 kb; *UMC104*, *Bam*HI, 9.4 kb; *UMC133*, *Hind*III, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; *UMC52*, *Bam*HI, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; *BNL15.07*, *Hind*III, 2.9 kb and 2.7 kb; *npi409*, *Eco*RI, 9.4 kb; *npi409*, *Hind*III, 10.4 kb, 9.0 kb and 3.9 kb; *UMC147*, *Hind*III, 16.3 kb, 3.8 kb and 2.4 kb; *asg73*, *Eco*RI, 3.8 kb; *UMC90*, *Hind*III, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; *UMC90*, *Bam*HI, 9.0 kb; *UMC72*, *Eco*RI, 8.5 kb; *UMC27*, *Hind*III, 8.3 kb and 4.5 kb; *UMC27*, *Bam*HI, 6.5 kb; *UMC43*, *Bam*HI, 9.7 kb, 7.3 kb and 5.7 kb; *tda37*, *Bam*HI, 9.0 kb, 8.0 kb and 6.4 kb; *UMC43*, *Bam*HI, 9.7 kb, 7.3 kb and 5.7 kb; *UMC40*, *Bam*HI, 7.2 kb, 4.7 kb and 4.3 kb; *BNL7.71*, *Hind*III, 10.6 kb; *BNL5.71*, *Bam*HI, 11.3 kb, 6.8 kb and 5.7 kb; *tda62*, *Bam*HI, 6.5 kb and 5.5 kb; *UMC68*, *Hind*III, 6.0 kb; *UMC104*, *Hind*III, 12.4 kb, 11.6 kb and 7.5 kb; *UMC104*, *Bam*HI, 9.4 kb; *phi10017*, *Bam*HI, 15.1 kb and 9.5 kb; *tda50*, *Bam*HI, 8.5 kb; *npi373*, *Hind*III, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb; *tda204*, *Bam*HI, 4.0 kb; *npi393*, *Eco*RI, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; *UMC65*, *Hind*III, 2.9 kb; *UMC46*, *Eco*RI, 6.5 kb and 5.6 kb; *asg7*, *Hind*III, 6.3 kb; *UMC28*, *Hind*III, 15.8 kb and 11.9 kb; *UMC28*, *Bam*HI, 9.9 kb, 7.6 kb and 6.6 kb; *UMC134*, *Hind*III, 7.5 kb and 4.7 kb; *asg8*, *Hind*III, 10.8 kb, 8.7 kb and 8.4 kb; *phi20581*, *Hind*III, 4.2 kb; *O2*, *Eco*RI, 9.4 kb; *asg34*, *Hind*III, 4.5 kb; *BNL15.40*, *Hind*III, 5.8 kb; *UMC116*, *Eco*RI, 9.5 kb; *UMC110*, *Bam*HI, 10.6 kb, 4.9 kb and 3.9 kb; *BNL8.32*, *Hind*III, 8.9 kb, 7.4 kb and 7.1 kb; *BNL14.07*, *Eco*RI, 6.4 kb; *UMC80*, *Hind*III, 10.7 kb, 8.2 kb and 2.4 kb; *BNL16.06*, *Eco*RI, 6.8 kb and 1.9 kb; *BNL16.06*, *Hind*III, 5.7 kb, 3.0 kb and 1.6 kb; *phi20020*, *Hind*III, 7.8 kb, 6.6 kb and 5.1 kb; *npi114*, *Hind*III,

10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, *HindIII*, 3.4 kb; UMC103, *HindIII*, 6.9 kb; UMC124, *HindIII*, 8.0 and 7.0; UMC124, *BamHI*, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, *HindIII*, 3.2 kb, 2.3 kb and 1.4 kb; UMC89, *EcoRI*, 7.3 kb; UMC89, *HindIII*, 7.3 kb; UMC89, *BamHI*, 9.5 kb, 6.0 kb, 5.2 kb and 4.5 kb; UMC89, *MspI*, 6.7 kb and 5.8 kb; BNL12.30, *EcoRI*, 3.5 kb; UMC48, *HindIII*, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, *EcoRI*, 3.8 kb and 3.0 kb; UMC53, *EcoRV*, 8.4 kb; np1268, *BamHI*, 6.4 kb; UMC7, *BamHI*, 4.2 kb; UMC3, *EcoRI*, 3.5 kb and 2.0 kb; phi10005, *EcoRI*, 15.0 kb and 1.6 kb; UMC113, *EcoRI*, 5.9 kb and 5.4 kb; UMC113, *BamHI*, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, *HindIII*, 11.4 kb and 6.4 kb; wx (waxy), *HindIII*, 21.0 kb; UMC105, *EcoRI*, 3.9 kb; CSU147, *HindIII* 5.9 kb; BNL5.10, *HindIII*, 6.1 kb and 4.4 kb; UMC114, *BamHI*, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95, *EcoRI*, 5.6 kb; UMC95, *HindIII*, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95, *BamHI*, 15.0 kb and 9.0 kb; asg44, *EcoRI*, 5.3 kb; CSU61, *EcoRI*, 8.1 kb and 4.8 kb; BNL7.57, *BamHI*, 11.6 kb and 5.9 kb; CSU54, *EcoRI*, 14.7 kb and 12.6 kb; phi20075, *EcoRI*, 7.1 kb; np1285, *EcoRI*, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, *EcoRI*, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5 kb; UMC130, *EcoRI*, 13.5 kb and 7.0 kb; UMC130, *HindIII*, 4.8 kb and 3.2 kb; UMC130, *BamHI*, 3.2 kb; UMC64, *HindIII*, 3.3 kb; UMC152, *HindIII*, 12.4 kb, 7.1 kb and 5.6 kb; phi06005, *EcoRI*, 12.8 kb; UMC163, *HindIII*, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44, *HindIII*, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, *HindIII*, 10.8 kb; np1306, *HindIII*, 7.0 kb; pmt1, *HindIII*, 2.3 kb; pmt2, *HindIII*, 2.8 kb and 2.1 kb; pmt5, *HindIII*, 12.3 kb, 8.1 kb, 3.6 kb, 3.2 kb and 2.5 kb; tda48, *HindIII*, 8.2 kb; tda53, *HindIII*, 3.8 kb and 2.2 kb; tda168, *EcoRI*, 3.6 kb; tda16, *HindIII*, 4.3 kb; and tda17, *HindIII*, 7.0 kb; tda250, *BamHI*, 4.0 kb, recited as marker-enzyme fragment size;

wherein said maize plant is produced by:

- (a) cross pollinating a maize female plant with either a (*Tripsacum* X teosinte) male plant or a (teosinte X *Tripsacum*) male plant to produce a trigeneric hybrid maize plant;
- (b) backcrossing said trigeneric hybrid plant produced in step (a) at least once to a maize plant.

Claim 45 (Currently amended). A seed, pollen, all derivatives, subsequent generations, variants, mutants, modifications, and cellular components produced by the plant of claim 44.

Claim 46 (Currently amended). A maize plant according to claim 44 whereby the roots of said plant contain aerenchyma.

Claim 47 (Currently amended). A maize plant according to claim 44 whereby said plant is drought tolerant.

Claim 48 (Currently amended). A maize plant according claim 44 whereby said plant is tolerant to corn rootworm.

Claim 49 (Currently amended). A maize plant according to claim 44 further comprising a novel band identified by SSR probe phi123.

Claim 50 (Currently amended). A maize plant according to claim 44 further comprising a novel band identified by SSR probe bnlg2235.

Claim 51 (Currently amended). A maize plant according to claim 44 further comprising a novel band identified by SSR probe dupSSR23.

Claim 52 (Currently amended). A maize plant according to claim 44 further comprising a novel band identified by SSR probe bnlg1805.

Claim 53 (Currently amended). A maize plant comprising one or more restriction fragments selected from the group consisting of

BNL5.62, *EcoRI*, 10.3 kb; *npi97*, *HindIII*, 3.9 kb; UMC157, *EcoRI*, 6.5 kb and 3.3 kb; UMC157, *HindIII*, 5.5 kb; UMC157, *BamHI*, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, *BamHI*, 7.0 kb; CSU3, *BamHI*, 10.0 kb and 7.6 kb; UMC67, *EcoRI*, 19.2 kb; UMC67, *BamHI* 13.4 kb, 11.0 kb and 1.6 kb; CSU92, *BamHI*, 13.3 kb and 7.5 kb; *asg62*, *BamHI*, 12.7 kb, 9.7 kb and 6.6 kb; UMC58, *HindIII*, 3.3 kb; CSU164, *EcoRI*, 9.0 kb and 7.0 kb; UMC128, *HindIII*, 6.0 kb; UMC107, *EcoRI*, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, *EcoRI*, 4.9 kb; UMC140, *HindIII*, 6.5 kb; *adh1*, *HindIII*, 9.4 kb; *adh1*, *BamHI*, 9.4 kb; UMC161, *HindIII*, 3.3 kb; BNL8.29, *HindIII*, 9.3 kb and 8.3 kb; UMC53, *EcoRI*, 9.4 kb; UMC53, *EcoRV*, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, *EcoRI*, 3.8 kb; UMC6, *HindIII* 9.4 kb; UMC6, *BamHI*, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, *HindIII*, 3.4 and 2.8 kb *agrr167*, *BamHI*, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, *EcoRI*, 7.5 kb and 5.4 kb; UMC34, *HindIII*, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, *BamHI*, 9.4 kb; UMC135, *HindIII*, 11.6 kb and 10.8 kb; UMC131, *EcoRI*, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, *EcoRI*, 3.9 kb; UMC55, *HindIII*, 4.3 kb; UMC5, *EcoRI*, 5.4 kb; UMC5, *HindIII*, 6.5 kb; UMC49, *BamHI*, 8.2 kb; UMC36, *BamHI*, 4.2 kb; UMC32, *EcoRI*, 5.3 kb; UMC32, *HindIII* 6.7 kb, 6.0 kb, and 2.8 kb; *asg24*, *HindIII*, 7.2 kb and 6.4 kb; UMC121, *EcoRI*, 3.7 kb and 3.2 kb; BNL8.35, *HindIII*, 9.9 kb and 8.7 kb; UMC50, *BamHI*, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; UMC42, *HindIII*, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; *npi247*, *EcoRI*, 8.0 kb; *npi247*, *HindIII* 3.0 kb; UMC10, *HindIII*, 3.0 kb; UMC10, *EcoRI*, 6.5 kb and 5.5 kb; UMC102, *EcoRI*, 2.7 kb; BNL6.06, *EcoRI*, 6.8 kb; CSU240, *EcoRI*, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, *HindIII*, 10.3 kb, 5.8 kb and 3.5 kb; *npi296*, *EcoRI*, 7.9 kb; UMC3, *EcoRI* 2.5 kb and 2.0 kb; *npi212*, *HindIII*, 4.3 kb; *npi212*, *BamHI*, 5.4 kb; UMC39, *EcoRI*, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; *phi10080*, *BamHI*, 9.7 kb; UMC63, *HindIII*, 9.5 kb and 4.3 kb; CSU303, *EcoRI*, 10.0 kb; UMC96, *HindIII*, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, *BamHI*, 7.5 kb; UMC2, *EcoRI*, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; CSU25,

HindIII, 5.2 kb, 4.5 and 4.2 kb; *agrr115*, *EcoRI*, 8.0 kb and 5.4 kb; *agrr115*, *BamHI*, 5.4 kb and 3.5 kb; *phi20725*, *EcoRI*, 10.3 kb, 9.7 kb and 7.2 kb; *phi20725*, *HindIII*, 1.5 kb; *UMC31*, *EcoRI*, 5.8 kb and 2.0 kb; *UMC31*, *BamHI* 6.5 kb; *UMC55*, *EcoRI*, 3.9 kb; *UMC55*, *HindIII*, 4.3 kb; *CSU235*, *HindIII*, 6.8 kb and 3.0 kb; *CSU585*, *HindIII*, 8.3 kb and 6.1 kb; *BNL5.46*, *HindIII*, 13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; *agrr321*, *BamHI*, 5.5 kb; *agrr89*, *HindIII*, 7.1 kb; *npi386*, *HindIII*, 12.6 kb, 9.3 kb and 8.2 kb; *UMC42*, *HindIII*, 19.2 kb, 10.3 kb 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; *tda62*, *BamHI*, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; *BNL5.71*, *EcoRV*, 11.3 kb, 6.8 kb, and 5.7 kb; *UMC156*, *HindIII*, 3.0 kb; *UMC66*, *EcoRI*, 10.5 kb; *UMC66*, *BamHI*, 3.7 kb and 2.4 kb; *UMC19*, *BamHI*, 12.3 kb; *UMC104*, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; *UMC104*, *BamHI*, 9.4 kb; *UMC133*, *HindIII*, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; *UMC52*, *BamHI*, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; *BNL15.07*, *HindIII*, 2.9 kb and 2.7 kb; *npi409*, *EcoRI*, 9.4 kb; *npi409*, *HindIII*, 10.4 kb, 9.0 kb and 3.9 kb; *UMC147*, *HindIII*, 16.3 kb, 3.8 kb and 2.4 kb; *asg73*, *EcoRI*, 3.8 kb; *UMC90*, *HindIII*, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; *UMC90*, *BamHI*, 9.0 kb; *UMC72*, *EcoRI*, 8.5 kb; *UMC27*, *HindIII*, 8.3 kb and 4.5 kb; *UMC27*, *BamHI*, 6.5 kb; *UMC43*, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; *tda37*, *BamHI*, 9.0 kb, 8.0 kb and 6.4 kb; *UMC43*, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; *UMC40*, *BamHI*, 7.2 kb, 4.7 kb and 4.3 kb; *BNL7.71*, *HindIII*, 10.6 kb; *BNL5.71*, *BamHI*, 11.3 kb, 6.8 kb and 5.7 kb; *tda62*, *BamHI*, 6.5 kb and 5.5 kb; *UMC68*, *HindIII*, 6.0 kb; *UMC104*, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; *UMC104*, *BamHI*, 9.4 kb; *phi10017*, *BamHI*, 15.1 kb and 9.5 kb; *tda50*, *BamHI*, 8.5 kb; *npi373*, *HindIII*, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb; *tda204*, *BamHI*, 4.0 kb; *npi393*, *EcoRI*, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; *UMC65*, *HindIII*, 2.9 kb; *UMC46*, *EcoRI*, 6.5 kb and 5.6 kb; *asg7*, *HindIII*, 6.3 kb; *UMC28*, *HindIII*, 15.8 kb and 11.9 kb; *UMC28*, *BamHI*, 9.9 kb, 7.6 kb and 6.6 kb; *UMC134*, *HindIII*, 7.5 kb and 4.7 kb; *asg8*, *HindIII*, 10.8 kb, 8.7 kb and 8.4 kb; *phi20581*, *HindIII*, 4.2 kb; *O2*, *EcoRI*, 9.4 kb; *asg34*,

HindIII, 4.5 kb; BNL15.40, *HindIII*, 5.8 kb; UMC116, *EcoRI*, 9.5 kb; *UMC110*, *BamHI*, 10.6 kb, 4.9 kb and 3.9 kb; BNL8.32, *HindIII*, 8.9 kb, 7.4 kb and 7.1 kb; BNL14.07, *EcoRI*, 6.4 kb; *UMC80*, *HindIII*, 10.7 kb, 8.2 kb and 2.4 kb; BNL16.06, *EcoRI*, 6.8 kb and 1.9 kb; BNL16.06, *HindIII*, 5.7 kb, 3.0 kb and 1.6 kb; phi20020, *HindIII*, 7.8 kb, 6.6 kb and 5.1 kb; npi114, *HindIII*, 10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, *HindIII*, 3.4 kb; UMC103, *HindIII*, 6.9 kb; UMC124, *HindIII*, 8.0 and 7.0; UMC124, *BamHI*, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, *HindIII*, 3.2 kb, 2.3 kb and 1.4 kb; UMC89, *EcoRI*, 7.3 kb; UMC89, *HindIII*, 7.3 kb; UMC89, *BamHI*, 9.5 kb, 6.0 kb, 5.2 kb and 4.5 kb; UMC89, *MspI*, 6.7 kb and 5.8 kb; BNL12.30, *EcoRI*, 3.5 kb; *UMC48*, *HindIII*, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, *EcoRI*, 3.8 kb and 3.0 kb; *UMC53*, *EcoRV*, 8.4 kb; npi268, *BamHI*, 6.4 kb; *UMC7*, *BamHI*, 4.2 kb; UMC3, *EcoRI*, 3.5 kb and 2.0 kb; phi10005, *EcoRI*, 15.0 kb and 1.6 kb; UMC113, *EcoRI*, 5.9 kb and 5.4 kb; UMC113, *BamHI*, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, *HindIII*, 11.4 kb and 6.4 kb; wx (waxy), *HindIII*, 21.0 kb; UMC105, *EcoRI*, 3.9 kb; CSU147, *HindIII* 5.9 kb; BNL5.10, *HindIII*, 6.1 kb and 4.4 kb; UMC114, *BamHI*, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95, *EcoRI*, 5.6 kb; UMC95, *HindIII*, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95, *BamHI*, 15.0 kb and 9.0 kb; asg44, *EcoRI*, 5.3 kb; CSU61, *EcoRI*, 8.1 kb and 4.8 kb; BNL7.57, *BamHI*, 11.6 kb and 5.9 kb; CSU54, *EcoRI*, 14.7 kb and 12.6 kb; phi20075, *EcoRI*, 7.1 kb; npi285, *EcoRI*, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, *EcoRI*, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5 kb; UMC130, *EcoRI*, 13.5 kb and 7.0 kb; UMC130, *HindIII*, 4.8 kb and 3.2 kb; UMC130, *BamHI*, 3.2 kb; UMC64, *HindIII*, 3.3 kb; UMC152, *HindIII*, 12.4 kb, 7.1 kb and 5.6 kb; phi06005, *EcoRI*, 12.8 kb; *UMC163*, *HindIII*, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44, *HindIII*, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, *HindIII*, 10.8 kb; npi306, *HindIII*, 7.0 kb; pmt1, *HindIII*, 2.3 kb; pmt2, *HindIII*, 2.8 kb and 2.1 kb; *pmt5*, *HindIII*, 12.3 kb, 8.1 kb,

3.6 kb, 3.2 kb and 2.5 kb; tda48, *Hind*III, 8.2 kb; tda53, *Hind*III, 3.8 kb and 2.2 kb; tda168, *Eco*RI, 3.6 kb; tda16, *Hind*III, 4.3 kb; and tda17, *Hind*III, 7.0 kb; tda250, *Bam*HI, 4.0 kb, recited as marker-enzyme fragment size;

wherein said maize plant is produced by:

- (a) cross pollinating either a (*Tripsacum* X teosinte) female plant or a (teosinte X *Tripsacum*) female plant with a maize male plant to produce a trigeneric hybrid plant;
- (b) backcrossing said trigeneric hybrid plant produced in step (a) at least once to a maize plant;

Claim 54 (Currently amended). A seed, pollen, all derivatives, subsequent generations, variants, mutants, modifications, and cellular components produced by the plant of claim 53.

Claim 55 (Currently amended). A maize plant according to claim 53 whereby the roots of said plant contain aerenchyma.

Claim 56 (Currently amended). A maize plant according to claim 53 whereby said plant is drought tolerant.

Claim 57 (Currently amended). A maize plant according to claim 53 whereby said plant is tolerant to corn rootworm.

Claim 58 (Currently amended). A maize plant according to claim 53 further comprising a novel band identified by SSR probe phi123.

Claim 59 (Currently amended). A maize plant according to claim 53 further comprising a novel band identified by SSR probe bnlg2235.

Claim 60 (Currently amended). A maize plant according to claim 53 further comprising a novel band identified by SSR probe dupSSR23.

Claim 61 (Currently amended). A maize plant according to claim 53 further comprising a novel band identified by SSR probe bnlgl805.

Claim 62 (Currently amended). A maize plant comprising one or more restriction fragments selected from the group consisting of

BNL5.62, *EcoRI*, 10.3 kb; np197, *HindIII*, 3.9 kb; UMC157, *EcoRI*, 6.5 kb and 3.3 kb; UMC157, *HindIII*, 5.5 kb; UMC157, *BamHI*, 14.0 kb, 8.5 kb and 4.5 kb; UMC11, *BamHI*, 7.0 kb; CSU3, *BamHI*, 10.0 kb and 7.6 kb; UMC67, *EcoRI*, 19.2 kb; UMC67, *BamHI* 13.4 kb, 11.0 kb and 1.6 kb; CSU92, *BamHI*, 13.3 kb and 7.5 kb; asg62, *BamHI*, 12.7 kb, 9.7 kb and 6.6 kb; UMC58, *HindIII*, 3.3 kb; CSU164, *EcoRI*, 9.0 kb and 7.0 kb; UMC128, *HindIII*, 6.0 kb; UMC107, *EcoRI*, 7.5.0 kb, 6.3 kb and 6.1 kb; UMC140, *EcoRI*, 4.9 kb; UMC140, *HindIII*, 6.5 kb; adh1, *HindIII*, 9.4 kb; adh1, *BamHI*, 9.4 kb; UMC161, *HindIII*, 3.3 kb; BNL8.29, *HindIII*, 9.3 kb and 8.3 kb; UMC53, *EcoRI*, 9.4 kb; UMC53, *EcoRV*, 8.4 kb, 3.8 kb and 3.0 kb; UMC6, *EcoRI*, 3.8 kb; UMC6, *HindIII* 9.4 kb; UMC6, *BamHI*, 13.2 kb, 12.7 kb, and 7.0 kb; UMC61, *HindIII*, 3.4 and 2.8 kb *agrr167*, *BamHI*, 5.7 kb, 4.5 kb and 4.0 kb; UMC34, *EcoRI*, 7.5 kb and 5.4 kb; UMC34, *HindIII*, 8.8 kb, 6.5 kb and 5.8 kb; UMC34, *BamHI*, 9.4 kb; UMC135, *HindIII*, 11.6 kb and 10.8 kb; UMC131, *EcoRI*, 10.6 kb, 5.8 kb and 4.3 kb; UMC55, *EcoRI*, 3.9 kb; UMC55, *HindIII*, 4.3 kb; UMC5, *EcoRI*, 5.4 kb; UMC5, *HindIII*, 6.5 kb; UMC49, *BamHI*, 8.2 kb; UMC36, *BamHI*, 4.2 kb; UMC32, *EcoRI*, 5.3 kb; UMC32, *HindIII* 6.7 kb, 6.0 kb, and 2.8 kb; asg24, *HindIII*, 7.2 kb and 6.4 kb; UMC121, *EcoRI*, 3.7 kb and 3.2 kb; BNL8.35, *HindIII*, 9.9 kb and 8.7 kb; UMC50, *BamHI*, 7.8 kb, 6.8 kb, 5.8 kb and 3.8 kb; UMC42, *HindIII*, 10.4 kb, 9.2 kb, 8.9 kb, 7.9 kb, 7.6 kb, and 3.7 kb; np1247, *EcoRI*, 8.0 kb; np1247, *HindIII* 3.0 kb; UMC10, *HindIII*, 3.0 kb; UMC10, *EcoRI*, 6.5 kb and 5.5 kb; UMC102, *EcoRI*, 2.7 kb; BNL6.06, *EcoRI*, 6.8 kb; CSU240, *EcoRI*, 10.6 kb, 4.5 kb and 3.3 kb; BNL5.37, *HindIII*, 10.3 kb, 5.8 kb and 3.5 kb; np1296,

EcoRI, 7.9 kb; UMC3, *EcoRI* 2.5 kb and 2.0 kb; *npi212*, *HindIII*, 4.3 kb; *npi212*, *BamHI*, 5.4 kb; UMC39, *EcoRI*, 12.2 kb, 9.2 kb, 7.8 kb and 7.1 kb; *phi10080*, *BamHI*, 9.7 kb; UMC63, *HindIII*, 9.5 kb and 4.3 kb; CSU303, *EcoRI*, 10.0 kb; UMC96, *HindIII*, 11.8 kb, 6.4 kb and 5.5 kb; UMC96, *BamHI*, 7.5 kb; UMC2, *EcoRI*, 11.8 kb, 10.4 kb, 8.0 kb and 3.9 kb; CSU25, *HindIII*, 5.2 kb, 4.5 and 4.2 kb; *agrr115*, *EcoRI*, 8.0 kb and 5.4 kb; *agrr115*, *BamHI*, 5.4 kb and 3.5 kb; *phi20725*, *EcoRI*, 10.3 kb, 9.7 kb and 7.2 kb; *phi20725*, *HindIII*, 1.5 kb; UMC31, *EcoRI*, 5.8 kb and 2.0 kb; UMC31, *BamHI* 6.5 kb; UMC55, *EcoRI*, 3.9 kb; UMC55, *HindIII*, 4.3 kb; CSU235, *HindIII*, 6.8 kb and 3.0 kb; CSU585, *HindIII*, 8.3 kb and 6.1 kb; BNL5.46, *HindIII*, 13.7 kb, 10.5 kb, 9.7 kb and 5.1 kb; *agrr321*, *BamHI*, 5.5 kb; *agrr89*, *HindIII*, 7.1 kb; *npi386*, *HindIII*, 12.6 kb, 9.3 kb and 8.2 kb; UMC42, *HindIII*, 19.2 kb, 10.3 kb, 8.9 kb, 7.6 kb, 3.7 kb and 3.0 kb; *tda62*, *BamHI*, 5.5 kb, 5.2 kb, 4.8 kb and 4.2 kb; BNL5.71, *EcoRV*, 11.3 kb, 6.8 kb, and 5.7 kb; UMC156, *HindIII*, 3.0 kb; UMC66, *EcoRI*, 10.5 kb; UMC66, *BamHI*, 3.7 kb and 2.4 kb; UMC19, *BamHI*, 12.3 kb; UMC104, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, *BamHI*, 9.4 kb; UMC133, *HindIII*, 10.6 kb, 9.9 kb, 9.2 kb and 7.7 kb; UMC52, *BamHI*, 8.7 kb, 6.9 kb, 3.8 kb, 3.0 kb and 2.0 kb; BNL15.07, *HindIII*, 2.9 kb and 2.7 kb; *npi409*, *EcoRI*, 9.4 kb; *npi409*, *HindIII*, 10.4 kb, 9.0 kb and 3.9 kb; UMC147, *HindIII*, 16.3 kb, 3.8 kb and 2.4 kb; *asg73*, *EcoRI*, 3.8 kb; UMC90, *HindIII*, 7.7 kb, 6.5 kb, 2.8 kb and 1.6 kb; UMC90, *BamHI*, 9.0 kb; UMC72, *EcoRI*, 8.5 kb; UMC27, *HindIII*, 8.3 kb and 4.5 kb; UMC27, *BamHI*, 6.5 kb; UMC43, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; *tda37*, *BamHI*, 9.0 kb, 8.0 kb and 6.4 kb; UMC43, *BamHI*, 9.7 kb, 7.3 kb and 5.7 kb; UMC40, *BamHI*, 7.2 kb, 4.7 kb and 4.3 kb; BNL7.71, *HindIII*, 10.6 kb; BNL5.71, *BamHI*, 11.3 kb, 6.8 kb and 5.7 kb; *tda62*, *BamHI*, 6.5 kb and 5.5 kb; UMC68, *HindIII*, 6.0 kb; UMC104, *HindIII*, 12.4 kb, 11.6 kb and 7.5 kb; UMC104, *BamHI*, 9.4 kb; *phi10017*, *BamHI*, 15.1 kb and 9.5 kb; *tda50*, *BamHI*, 8.5 kb; *npi373*, *HindIII*, 6.5 kb, 5.6 kb, 5.1 kb and 3.0 kb;

tda204, *Bam*HI, 4.0 kb; *npi393*, *Eco*RI, 12.1 kb, 8.5 kb, 7.0 kb and 5.6 kb; UMC65, *Hind*III, 2.9 kb; UMC46, *Eco*RI, 6.5 kb and 5.6 kb; *asg7*, *Hind*III, 6.3 kb; UMC28, *Hind*III, 15.8 kb and 11.9 kb; UMC28, *Bam*HI, 9.9 kb, 7.6 kb and 6.6 kb; UMC134, *Hind*III, 7.5 kb and 4.7 kb; *asg8*, *Hind*III, 10.8 kb, 8.7 kb and 8.4 kb; *phi20581*, *Hind*III, 4.2 kb; O2, *Eco*RI, 9.4 kb; *asg34*, *Hind*III, 4.5 kb; BNL15.40, *Hind*III, 5.8 kb; UMC116, *Eco*RI, 9.5 kb; *UMC110*, *Bam*HI, 10.6 kb, 4.9 kb and 3.9 kb; BNL8.32, *Hind*III, 8.9 kb, 7.4 kb and 7.1 kb; BNL14.07, *Eco*RI, 6.4 kb; *UMC80*, *Hind*III, 10.7 kb, 8.2 kb and 2.4 kb; BNL16.06, *Eco*RI, 6.8 kb and 1.9 kb; BNL16.06, *Hind*III, 5.7 kb, 3.0 kb and 1.6 kb; *phi20020*, *Hind*III, 7.8 kb, 6.6 kb and 5.1 kb; *npi114*, *Hind*III, 10.0 kb, 8.8 kb and 6.3 kb; BNL9.11, *Hind*III, 3.4 kb; UMC103, *Hind*III, 6.9 kb; UMC124, *Hind*III, 8.0 and 7.0; UMC124, *Bam*HI, 6.6 kb, 2.6 kb and 1.6 kb; UMC120, *Hind*III, 3.2 kb, 2.3 kb and 1.4 kb; UMC89, *Eco*RI, 7.3 kb; UMC89, *Hind*III, 7.3 kb; UMC89, *Bam*HI, 9.5 kb, 6.0 kb, 5.2 kb and 4.5 kb; UMC89, *Msp*I, 6.7 kb and 5.8 kb; BNL12.30, *Eco*RI, 3.5 kb; *UMC48*, *Hind*III, 6.2 kb, 5.3 kb, 4.7 kb, 4.2 kb and 3.5 kb; UMC53, *Eco*RI, 3.8 kb and 3.0 kb; *UMC53*, *Eco*RV, 8.4 kb; *npi268*, *Bam*HI, 6.4 kb; *UMC7*, *Bam*HI, 4.2 kb; UMC3, *Eco*RI, 3.5 kb and 2.0 kb; *phi10005*, *Eco*RI, 15.0 kb and 1.6 kb; UMC113, *Eco*RI, 5.9 kb and 5.4 kb; UMC113, *Bam*HI, 12.8 kb, 11.8 kb and 10.5 kb; UMC192, *Hind*III, 11.4 kb and 6.4 kb; *wx* (waxy), *Hind*III, 21.0 kb; UMC105, *Eco*RI, 3.9 kb; CSU147, *Hind*III 5.9 kb; BNL5.10, *Hind*III, 6.1 kb and 4.4 kb; UMC114, *Bam*HI, 12.6 kb, 11.5 kb, 10.0 kb, 8.8 kb, 7.5 kb and 6.5 kb; UMC95, *Eco*RI, 5.6 kb; UMC95, *Hind*III, 7.7 kb, 7.3 kb, 4.8 kb, 4.5 kb 4.1 kb and 1.7 kb; UMC95, *Bam*HI, 15.0 kb and 9.0 kb; *asg44*, *Eco*RI, 5.3 kb; CSU61, *Eco*RI, 8.1 kb and 4.8 kb; BNL7.57, *Bam*HI, 11.6 kb and 5.9 kb; CSU54, *Eco*RI, 14.7 kb and 12.6 kb; *phi20075*, *Eco*RI, 7.1 kb; *npi285*, *Eco*RI, 12.4 kb, 9.4 kb and 6.0 kb; KSU5, *Eco*RI, 9.8 kb, 7.6 kb, 6.1 kb, 3.8 kb and 3.5 kb; UMC130, *Eco*RI, 13.5 kb and 7.0 kb; UMC130, *Hind*III, 4.8 kb and 3.2 kb; UMC130,

*Bam*HI, 3.2 kb; UMC64, *Hind*III, 3.3 kb; UMC152, *Hind*III, 12.4 kb, 7.1 kb and 5.6 kb; phi06005, *Eco*RI, 12.8 kb; *UMC163*, *Hind*III, 7.0 kb, 4.8 kb; 3.0 kb; 2.6 kb and 2.3 kb; UMC44, *Hind*III, 9.8 kb, 8.7 kb, 7.2 kb, 5.5 kb and 4.0 kb; BNL10.13, *Hind*III, 10.8 kb; npi306, *Hind*III, 7.0 kb; *pmt1*, *Hind*III, 2.3 kb; *pmt2*, *Hind*III, 2.8 kb and 2.1 kb; *pmt5*, *Hind*III, 12.3 kb, 8.1 kb, 3.6 kb, 3.2 kb and 2.5 kb; *tda48*, *Hind*III, 8.2 kb; *tda53*, *Hind*III, 3.8 kb and 2.2 kb; *tda168*, *Eco*RI, 3.6 kb; *tda16*, *Hind*III, 4.3 kb; and *tda17*, *Hind*III, 7.0 kb; *tda250*, *Bam*HI, 4.0 kb, recited as marker-enzyme fragment size;

wherein said plant is produced by:

- (a) cross pollinating a maize female plant with either a (*Tripsacum* X teosinte) male plant or a (teosinte X *Tripsacum*) male plant to produce a hybrid maize plant;
- (b) backcrossing said hybrid maize plant produced in step (a) at least once to a (*Tripsacum* X teosinte) plant or a (teosinte X *Tripsacum*) plant;

Claim 63 (Currently amended). A seed, pollen, all derivatives, subsequent generations, variants, mutants, modifications, and cellular components produced by the plant of claim 62.

Claim 64 (Currently amended). A maize plant according to claim 62 whereby the roots of said plant contain aerenchyma.

Claim 65 (Currently amended). A maize plant according to claim 62 whereby said plant is drought tolerant.

Claim 66 (Currently amended). A maize plant according to claim 62 whereby said plant is tolerant to corn rootworm.

Claim 67 (Currently amended). A maize plant according to claim 62 further comprising a novel band identified by SSR probe phi123.

Claim 68 (Currently amended). A maize plant according to claim 62 further comprising a novel band identified by SSR probe bnlg2235.

Claim 69 (Currently amended). A maize plant according to claim 62 further comprising a novel band identified by SSR probe dupSSR23.

Claim 70 (Currently amended). A maize plant according to claim 62 further comprising a novel band identified by SSR probe bnlg1805.

Claims 71-79 (Cancelled).